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WHAT THE ORD

The whole art of in the fact that the growth removal takes from the

ents, and that unless replaced, the soil is exhausted. It may not be by two, but it is a tempt to grow the same soil must in the particular consist largely in the growth that particular crop.

Farmers, therefore, stand the wants of can propose to cultivate, a particular ingredient in the soil. If this were the science of improving

It is evident that nature self always provides against all the drafts made upon it, so that a soil left in a culture not only maintains its fertility, but is constantly increasing in it. In this state, the grasses derive their sustenance from especially carbonaceous materials, which, if they are not removed, but are left upon the spot where the plants are constantly sown, the organic matter in the soil

return to the soil where again a complete colonization will take place.

But man for the purpose often remove the grass-
seed soil where they grew, as
for an artificial complete
manure, which may
which the plants so return
the soil. The quiet air
are interfered with, and
ation is made, sterility.

On careful examination
that the grasses, for
soil of two prominent
proportion, not that the

more striking from the others. These are carbonate of lime. It well known to be the It is found not only cereal grasses, but is a ent found in the bone animals. On every phosphate of lime, is moved in all the crops consumed off the farm the animals that are Phosphate of lime is parts of phosphoric acid of lime, and hence the acid which the seed of

amount of phosphate of
other phosphates, like
soda, are found only in
the cultivated plants.

Now the proportion
ric acid is found in va-
well ascertained, and
look at them a moment.

10,000	the seeds of wheat
" "	" " barley
" "	" " rye
" "	" " oats
" "	" " beans
" "	" " peas

It will be seen that
very frequently said
always consumed on ac-
tion of them on the
excretion and not the

try through.

Now let us look at that are more frequent land. We find that the phoric acid

100 lbs. of wheat straw is	100 lbs. of wheat straw is
" " barley straw	" " barley straw
" " oat straw is	" " oat straw is
" " horse straw	" " horse straw
" " pea straw	" " pea straw
" " red clover	" " red clover
" " chaff	" " chaff
" " common turnips	" " common turnips
" " Swede turnips	" " Swede turnips
" " carrots	" " carrots

It is easy to see here tion of phosphate of lime soil in the removal of it and also that this salt is the crops of the farm.

extent of the removal of
from the soil, the ques-
tion of the restoration of this im-
portant element to the
desired effect, the
maintenance of fertility
which practical experi-
ence has settled it long ago
and the amount of phos-
phorus differs very widely.
The substances taken as
producing the manure.
Therefore, that we can restore
directly in the form of
ground, or in the form of
through animals, and the
of manure. The manu-
of cake. For instance, the
phosphate of lime.

by feeding oil
and superior to that
This fact alone, which
lished, ought to lead us